

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4	compare with "principal component" with library	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 08:49
L2	2	1 and phoneme	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 08:48
L3	2	speech same ("principal component" with library)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 08:50
L4	47	("principal component" with library)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 08:50
L5	4	("principal component" with library) and speech	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 08:52
L6	13	("principal component" with compare) and speech	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 08:52
L7	12	(US-4764963-\$ or US-6070133-\$ or US-5668925-\$ or US-6138089-\$ or US-4888806-\$ or US-5025471-\$ or US-5490234-\$ or US-5864798-\$ or US-5761639-\$ or US-5619709-\$ or US-6327565-\$ or US-4297528-\$). did.	USPAT	OR	ON	2007/03/22 09:00
L8	0	L7 and (compare same principal)	USPAT	OR	ON	2007/03/22 09:00
L9	0	L7 and (text same principal)	USPAT	OR	ON	2007/03/22 09:00
L10	1349	phoneme with text	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/22 09:10
L11	224	10 and intonation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/22 09:11
L12	56	10 and (intonation with (change alter select\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/22 09:57
L13	3	12 and (principal adj component)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/22 09:12

## EAST Search History

L14	10	12 and (phoneme adj2 text)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/22 09:59
L15	1	12 and speech\$to\$text	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/22 10:00
L16	1250	speech\$to\$text	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/22 10:00
L17	55	16 same phoneme	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/22 10:01
L18	24	17 and text\$to\$speech	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/22 10:02
L19	4	18 and intonation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/22 10:02
L20	9	phoneme\$to\$text	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/22 10:19
S11	2346635	encod\$3 compress\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/06 10:35
S12	1797	S11 and (pitch adj (period segment))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/06 10:35
S13	196	S12 and principal	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/06 10:35
S14	3	S13 and ("correlation matrix")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/06 10:35
S15	3	S14	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/06 10:35

## EAST Search History

S16	14	S12 and (principal adj component)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/06 11:06
S17	14	S16	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/06 10:35
S18	565	alpha adj blend	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/06 10:36
S19	395	S11 and S18	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/06 10:36
S20	2	S12 and S18	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/06 10:36
S21	12	(alpha adj blend) same smooth\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/06 10:36
S22	94	(alpha adj blend\$3) same smooth\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/06 10:37
S23	0	S12 and (automatic\$4 with coefficient with update)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/06 10:38
S24	48	S12 and (automatic\$4 with coefficient)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/06 10:38
S25	21	S12 and (automatic\$4 with coefficient) and threshold	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/06 10:40
S26	156	S12 and (adaptive with coefficient) and threshold	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/06 10:41
S27	5	S12 and ((adaptive with coefficient) same update) and threshold	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/06 10:41

## EAST Search History

S28	1	S12 and ((principal adj component) with valid)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/06 11:07
S29	11	S11 and ((principal adj component) with valid)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/06 11:19
S30	277	(704/503).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/03/06 11:29
S31	43	S30 and periodic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/06 11:22
S32	1	S30 and periodic and principal	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/06 11:22
S33	967	((704/503) or (704/500)).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/03/06 11:29
S34	38	S33 and (pitch adj period)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/06 11:30
S35	15	("3598921"   "3624302"   "3641496"   "3803358"   "4038503"   "4297528"   "4349700").PN. OR ("4764963").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/06 11:38
S36	43	("3387093"   "3462555"   "4435831"   "4435832"   "4631746"   "4661915"   "4686644"   "4695970"   "4764963"   "4782485"   "4792975"   "4796216"   "4870685"   "4888806"   "4922539"   "4969193"   "5025471"   "5153913"   "5448679"   "5536902"   "5615298"   "5627939"   "5659659"   "5696875"   "5701391"   "5710863"   "5715356"   "5742930"   "5787391"   "5873059"   "5884010").PN. OR ("6138089").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/07 12:40
S37	2346635	encod\$3 compress\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/07 12:41
S38	1797	S37 and (pitch adj (period segment))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/07 12:41

## EAST Search History

S39	68	S38 and (decompress\$3 reconstruct\$3) and concatenate	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/07 12:43
S40	52	S39 and (smooth\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/07 13:09
S41	445	scal\$4 with "principal component"	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/22 08:47
S42	199	S37 and S41	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/07 13:00
S43	2	S38 and S41	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/07 13:00
S44	38	S40 and transmi\$5	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/07 13:10
S45	15	S41 and (threshold with centroid)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/07 15:12
S46	15	S41 and (threshold with average)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/07 15:12
S47	10	S41 and (threshold with "principal component")	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/07 15:15
S48	2	S38 and(threshold with "principal component")	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/07 15:15
S49	2	S38 and (threshold with "principal component")	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/07 15:15
S50	2	S38 and (threshold same "principal component")	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/07 15:15
S51	140	S37 and (threshold same "principal component")	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/07 15:16
S52	42356	"principal component"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/15 16:52
S53	15	S52 with valid	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/15 16:53

## EAST Search History

S54	45	S52 with updat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/16 11:09
S55	57	"704".clas. and (principal with (new updat\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/16 11:10
S56	16	"704".clas. and ((principal adj component) with (new updat\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/16 14:17
S57	18	"704".clas. and ((principal adj component) with (scal\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/16 14:27
S58	0	"704".clas. and (trapizoid with filter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/16 14:27
S59	0	"704".clas. and (trapezoid with filter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/16 14:47
S60	14	"704".clas. and (first\$order with smooth\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/16 14:47
S61	447	scal\$4 with "principal component"	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/21 16:38
S62	156	S61 and compress\$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/21 15:43
S63	55	S62 and (audio speech acoustic)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/21 16:39
S64	40	scal\$4 same (coefficient with "principal component")	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/21 16:01
S65	11	S62 and S64	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/21 16:01

## EAST Search History

S66	12	(US-4764963-\$ or US-6070133-\$ or US-5668925-\$ or US-6138089-\$ or US-4888806-\$ or US-5025471-\$ or US-5490234-\$ or US-5864798-\$ or US-5761639-\$ or US-5619709-\$ or US-6327565-\$ or US-4297528-\$). did.	USPAT	OR	ON	2007/03/22 08:59
S67	0	S66 and (receive with principal)	USPAT	OR	ON	2007/03/21 16:22
S68	0	S66 and (receiv\$4 with principal)	USPAT	OR	ON	2007/03/21 16:22
S69	4178	principal component analysis	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/03/21 16:38
S70	2621	(weigh\$4 factor\$3 scal\$4) with "principal component"	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/21 16:39
S71	916	S69 and S70	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/21 16:39
S72	230	S71 and (audio speech acoustic)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/21 16:39